THERMOCHIMICA ACTA, VOLUME 159 (1990)

AUTHOR INDEX

Al-Salihy, A.R.M. 139
Aravindakshan, K.K. 101
Aronne, A. 299
Aware, A.D. 109

Bastide, J.P. 153
Bouamrane, A. 153
Brandová, D. 1
Bujewski, A. 247

Chaudhuri, N.R. 55
Chhattri, G. 373
Costantini, A. 299

Dobrowolski, J. 247
Donia, A.M. 85
Drebushchak, V.A. 377

El-Dessouky, A. 215
El-Ries, M.A. 85
Exner, O. 67

García-Clavel, M.E. 145
Ghosh, A. 55
Glicksman, M.E. 93
Grzędzicki, K. 247
Güler, Ç. 29

Hindawy, A.M. 215

Jasim, F. 139
Jayadevan, N.C. 327
Jayanthi, K. 349

Kanetsuna, H. 125
Kassem, M.K. 215
Kbir-Ariguib, N. 201
Kerridge, D.H. 163
Koner, S. 55
Kumar, V.G. 255

Lamparczyk, H. 235
Löffler, D.G. 171

Manjula, S. 255
Marotta, A. 299
Martinez-Lope, M.J. 145
Masoud, M.S. 215
Mohamed, G.B. 215
Mohammed Yusuff, K.K. 357
Momota, M. 125
Mukerjee, S.K. 349
Muraishi, K. 225
Muraleedharan, K. 101

Nagase, K. 225
Nikumbh, A.K. 109
Noor, S. 187

Obeid, N.A. 215
Ozawa, T. 125

Palermo, A. 171
Patterson, D. 177
Pernice, P. 299
Piacente, V. 193
Pillai, C.K.S. 255

Rahman, M.M. 109
Rama Rao, G.A. 349
Rokbani, R. 201

Saint Victor, M.-E. 177
Sali, S.K. 327
Salman, S.R. 187
Saloum, H. 85
Sampath, S. 327
Sandu, C. 267
Sarier, N. 29
Sawhney, S.S. 373
Scardala, P. 193
Schwarz, F.P. 305
Segal, E. 35, 369
Singh, N.B. 93
Singh, R.K. 267
Slanina, Z. 67, 77
Sreekala, R. 357

Thourey, J. 153
Trojan, M. 1, 13

Urbanovici, E. 35, 369

Vaidya, V.N. 349
Venugopal, V. 349

Walewski, M. 247
Wesołowski, M. 235
Wu, C.-H. 337

Zamora, J. 145
Zayed, M.A. 43
Zellipour, A. 163

THERMOCHIMICA ACTA, VOLUME 159 (1990)

SUBJECT INDEX

Alkanes,
Vaporization enthalpies and entropies of some *n*-alkanes 193

Benzenes,
Thermodynamic and energy functions of fluorinated benzenes: their significance in correlation analysis 67

Benzylphenylbenzimidazole,
Thermal and spectral studies of 1-benzyl-2-phenylbenzimidazole complexes of cobalt(II) 357

Biological thermodynamic data,
Biological thermodynamic data for the calibration of differential scanning calorimeters: heat capacity data on the unfolding transition of β-lactoglobulin in solution 305

Calcium compounds,
Thermolytic and polymorphic study of the compounds $KCaPO_4 \cdot H_2O$ and $K_4Ca(PO_4)_2 \cdot 5H_2O$ 201

Calibration,
Biological thermodynamic data for the calibration of differential scanning calorimeters: heat capacity data on the unfolding transition of β-lactoglobulin in solution 305

Cardanol,
Thermal characterization of cardanol–formaldehyde resins and cardanol–formaldehyde/poly(methyl methacrylate) semi-interpenetrating polymer networks 255

Chelates,
Analysis of thermogravimetric traces as an approach to determine the mechanism of dissociation of copper(II)-α-arylazoacetoacetylaminopyridine chelates 43

Chlorobenzaldehydethiosemicarbazone,
Stability and thermodynamics of Gd^{III}- and Eu^{III}-*p*-chlorobenzaldehydethiosemicarbazone systems 373

Chromium,
Thermochemical studies in the sodium–chromium–oxygen system 327

Chromium(II) oxalate dihydrate,
A study of the thermal decomposition of chromium(II) oxalate dihydrate using direct current electrical conductivity measurements 109

Cobalt compounds,
Study of thermal dehydration of $Co_{1/2}Mg_{1/2}(H_2PO_4)_3 \cdot 3H_2O$ 1

Cobalt(II) complexes,
Thermal and spectral studies of 1-benzyl-2-phenylbenzimidazole complexes of cobalt(II) 357

Cobalt(III) complexes,
Kinetics of non-isothermal decomposition of polymeric complexes of *N,N'*-bis(dithiocarboxy)piperazine with iron(III) and cobalt(III) 101

Concentration dependence,
The W-shaped concentration dependence of C_p^E and solution non-randomness: systems approaching the UCST 177

Copper(II) compounds,
Analysis of thermogravimetric traces as an approach to determine the mechanism of dissociation of copper(II)-α-arylazoacetoacetylaminopyridine chelates 43

Correlation analysis,
Thermodynamic and energy functions of fluorinated benzenes: their significance in correlation analysis, 67

Crystal nucleation,
Crystal nucleation and growth in an $LiNaSiO_3$ glass 299

Decomposition,
A study of the thermal decomposition of chromium(II) oxalate dihydrate using direct current electrical conductivity measurements 109
Thermal decomposition of some hydroxy Schiff's bases 187
Thermally induced isomerization and decomposition of diethylenetriamine complexes of zinc(II) and cadmium(II) in the solid state 55

Degradation,
A derivatographic study of the thermal degradation of tetrabutyl ammonium perchlorate 139

Dehydration,
Kinetics of the thermal dehydration of acid-activated montmorillonite by the rising temperature technique 29
Study of thermal dehydration of $Co_{1/2}Mg_{1/2}(H_2PO_4)_3 \cdot 3H_2O$ 1

Thermal dehydration reactions of Na^I, K^I, Rb^I and Cs^I malonate hydrates in the solid state 225
Thermogravimetric investigation of the phase transition in the zeolite heulandite at dehydration 377
Desorption,
Kinetics of water desorption from pelletized 4A and 5A zeolites 171
Diethylenetriamine complexes,
Thermally induced isomerization and decomposition of diethylenetriamine complexes of zinc(II) and cadmium(II) in the solid state 55
Differential scanning calorimetry,
Modeling differential scanning calorimetry 267
Dissociation,
Analysis of thermogravimetric traces as an approach to determine the mechanism of dissociation of copper(II)-α-arylazoacetoacetylaminopyridine chelates 43

Electrical conductivity,
A study of the thermal decomposition of chromium(II) oxalate dihydrate using direct current electrical conductivity measurements 109
Temperature–electrical conductivity relations for 5-nitro- and 6-nitrobenzimidazole and their transition metal complexes 215
Europium,
Stability and thermodynamics of Gd^{III}- and Eu^{III}-*p*-chlorobenzaldehydethiosemicarbazone systems 373
Eutectics,
Molten lithium nitrate–potassium nitrate eutectic: the reaction of ruthenium(III), rhodium(III) and palladium(II) chlorides 163
Excess heat capacity,
The W-shaped concentration dependence of C_p^E and solution non-randomness: systems approaching the UCST 177

Formaldehyde/poly(methyl methacrylate),
Thermal characterization of cardanol–formaldehyde resins and cardanol–formaldehyde/poly(methyl methacrylate) semi-interpenetrating polymer networks 255

Gadolinium,
Stability and thermodynamics of Gd^{III}- and Eu^{III}-*p*-chlorobenzaldehydethiosemicarbazone systems 373
Glasses,
Crystal nucleation and growth in an $LiNaSiO_3$ glass 299
Glycinium ion,
Enthalpy of ionization of aqueous glycinium ion ($^+HGly = H^+ + Gly$) at 298 K, dependence on ionic strength, and thermodynamics of ionization 337

Heat capacity,
Biological thermodynamic data for the calibration of differential scanning calorimeters: heat capacity data on the unfolding transition of β-lactoglobulin in solution 305
Heating rate,
Is classical non-isothermal kinetics with constant heating rate actually non-isothermal kinetics with quasi-constant heating rate? 369
On a relationship between temperature and constant heating rate for a constant degree of conversion in non-isothermal kinetics 35
Heulandite,
Thermogravimetric investigation of the phase transition in the zeolite heulandite at dehydration 377

Ionization,
Enthalpy of ionization of aqueous glycinium ion ($^+HGly = H^+ + Gly$) at 298 K, dependence on ionic strength, and thermodynamics of ionization 337
Iron(III) complexes,
Kinetics of non-isothermal decomposition of polymeric complexes of *N,N'*-bis(dithiocarboxy)piperazine with iron(III) and cobalt (III) 101
Isomeric equilibria,
Thermodynamics of molecular electronics agents: the significance of highly mobile isomeric equilibria 77
Isomerization,
Thermally induced isomerization and decomposition of diethylenetriamine complexes of zinc(II) and cadmium(II) in the solid state 55

Lithium nitrate,
Molten lithium nitrate–potassium nitrate eutectic: the reaction of ruthenium(III), rhodium(III) and palladium(II) chlorides 163
Lube oils,
Application of principal component analysis and thermoanalytical methods in evaluation of lube oils 235

Magnesium compounds,
Standard enthalpies of formation of the compounds $KMgH_3$, $KMgH_2F$, $KMgHF_2$, $KMgF_3$ and K_2MgF_4 having a perovskite structure 153

Study of thermal dehydration of $Co_{1/2}Mg_{1/2}(H_2PO_4)_3 \cdot 3H_2O$ 1
Magnesium oxide,
Stabilization of the cubic ZrO_2 phase in the system ZrO_2–MgO 145
Malonate hydrates,
Thermal dehydration reactions of Na^I, K^I, Rb^I and Cs^I malonate hydrates in the solid state 225
Modeling,
Modeling differential scanning calorimetry 267
Molecular electronics,
Thermodynamics of molecular electronics agents: the significance of highly mobile isomeric equilibria 77
Montmorillonite,
Kinetics of the thermal dehydration of acid-activated montmorillonite by the rising temperature technique 29

Nitrobenzimidazoles,
Temperature–electrical conductivity relations for 5-nitro- and 6-nitrobenzimidazole and their transition metal complexes 215
Non-isothermal kinetics,
Is classical non-isothermal kinetics with constant heating rate actually non-isothermal kinetics with quasi-constant heating rate? 369
On a relationship between temperature and constant heating rate for a constant degree of conversion in non-isothermal kinetics 35

Oxidation,
Oxidation behaviour of U_2N_3 349
Oxygen,
Thermochemical studies in the sodium–chromium–oxygen system 327

Phase transition,
Thermogravimetric investigation of the phase transition in the zeolite heulandite at dehydration 377
Phenanthroline,
Synthesis and thermal investigations of ruthenium(II) phenanthroline complexes of $[Ru(phen)_3]X_2$ type, where $X \equiv Cl^-$, Br^-, I^-, SCN^-, VO_3^-, ReO_4^- 247
Pivalic acid,
Physical properties of ultra-pure pivalic acid 93
Polymers,
Thermal analysis of polymer samples by a round robin method. Part V. Thermogravimetry 125
Thermal characterization of cardanol–formaldehyde resins and cardanol–formaldehyde/poly(methyl methacrylate) semi-interpenetrating polymer networks 255
Polymorphism,
Conformational polymorphism of a biologically active Schiff's base derived from sulphonamide 85
Potassium compounds,
Standard enthalpies of formation of the compounds $KMgH_3$, $KMgH_2F$, $KMgHF_2$, $KMgF_3$ and K_2MgF_4 having a perovskite structure 153
Thermolytic and polymorphic study of the compounds $KCaPO_4 \cdot H_2O$ and $K_4Ca(PO_4)_2 \cdot 5H_2O$ 201
Potassium nitrate,
Molten lithium nitrate–potassium nitrate eutectic: the reaction of ruthenium(III), rhodium(III) and palladium(II) clorides 163
Preparation,
A study of the thermal preparation and stability of c-$Zn_2P_4O_{12}$ 13
Principal component analysis,
Application of principal component analysis and thermoanalytical methods in evaluation of lube oils 235

Ruthenium(II) complexes,
Synthesis and thermal investigations of ruthenium(II) phenanthroline complexes of $[Ru(phen)_3]X_2$ type, where $X \equiv Cl^-$, Br^-, I^-, SCN^-, VO_3^-, ReO_4^- 247

Schiff's bases,
Conformational polymorphism of a biologically active Schiff's base derived from sulphonamide 85
Thermal decomposition of some hydroxy Schiff's bases 187
Sodium,
Thermochemical studies in the sodium–chromium–oxygen system 327
Solution non-randomness,
The W-shaped concentration dependence of C_p^E and solution non-randomness: systems approaching the UCST 177
Sulphonamide,
Conformational polymorphism of a biologically active Schiff's base derived from sulphonamide 85

Temperature,
Temperature–electrical conductivity relations for 5-nitro- and 6-nitrobenzimidazole and their transition metal complexes 215
Tetrabutyl ammonium perchlorate,
A derivatographic study of the thermal de-

gradation of tetrabutyl ammonium perchlorate 139
Thermal stability,
A study of the thermal preparation and stability of c-$Zn_2P_4O_{12}$ 13

U_2N_3,
Oxidation behaviour of U_2N_3 349

Vaporization,
Vaporization enthalpies and entropies of some *n*-alkanes 193

Zeolites,
Kinetics of water desorption from pelletized 4A and 5A zeolites 171
Thermogravimetric investigation of the phase transition in the zeolite heulandite at dehydration 377
Zinc compounds,
A study of the thermal preparation and stability of c-$Zn_2P_4O_{12}$ 13
Zirconium dioxide,
Stabilization of the cubic ZrO_2 phase in the system ZrO_2–MgO 145